



Attorney Docket No.: P-2966-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: HASSON, Jaime et al. Examiner: K. Nguyen
Serial No.: 09/579,528 Group Art Unit: 2817
Filed: May 26, 2000 Attorney Docket No.: P-2966-US
Title: RF POWER AMPLIFIER AND METHODS FOR IMPROVING THE
EFFICIENCY THEREOF

AMENDMENT

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

This Amendment is filed in response to the Office Action dated October 19, 2001 issued by the United States Patent and Trademark Office in connection with the above-identified Application. A response to the Office Action was due January 19, 2002. Applicants are concurrently filing a Petition for a One-Month Extension of Time, including the required fee. Therefore, a response is due February 19, 2002. Accordingly, this Amendment is being timely filed.

Kindly amend the above identified application as follows:

In the Specification:

Please amend the specification as follows:

Please replace the paragraph starting on page 6 at line 23 with the following rewritten paragraph:

Fig. 2A is a graphical illustration of the efficiency η of the RF transmitter of Figs. 1A and 1B as a function of the normalized output power. The outphasing system with shunt reactance has a peak efficiency at P1, and a peak efficiency at P2. When the desired output power is at or greater than a threshold, namely P1, logic controller 130 performs outphasing, setting the phase ϕ_m so that outphasing system 128 applies $+\phi_m$ to phase shifter 138 and $-\phi_m$ to phase shifter 140, thus producing an output power according to the desired value. It can be